JOURNAL OF OPTIMIZATION
THEORY AND APPLICATIONS

Vol. 114, No. 1 July 2002

CONTENTS

CONTRIBUTED PAPERS

On the Global Convergence of a Modified Augmented Lagrangian Linesearch Interior-Point Newton Method for Nonlinear Programming, *M. Argáez and R. A. Tapia* 1

Relaxation through Homogenization for Optimal Design Problems with Gradient Constraints, *R. Lipton* 27

Probabilistic Analysis of Condition Numbers for Linear Programming, *D. Cheung and F. Cucker* 55

Numerical Solution for Linear-Quadratic Control Problems of Markov Jump Linear Systems and Weak Detectability Concept, *J. B. R. Do Val and E. F. Costa* 69

Generalized Surrogate Problem Methodology for Online Stochastic Discrete Optimization, *K. Gokbayrak and C. G. Cassandras* 97

Solving Nonlinear Programming Problems with Noisy Function Values and Gradients, *M. Hintermüller* 133

Stochastic Discrete-Time Nash Games with Constrained State Estimators, *A. R. Kian, J. B. Cruz, Jr., and M. A. Simaan* 171

Existence of Equilibria for Multivalued Mappings and Its Application to Vectorial Equilibria, *L. J. Lin, Z. T. Yu, and G. Kassay* 189

Stochastic Method for the Solution of Unconstrained Vector Optimization Problems, *S. Schäffler, R. Schultz, and K. Weinzierl* 209

Duality Principles for Optimization Problems Dealing with the Difference of Vector-Valued Convex Mappings, *M. Volle* 223

BOOK NOTICES 243

GENERAL INFORMATION

Editorial Policy 245

Preparation of Papers 247

Editorial Addresses 251

JOURNAL OF OPTIMIZATION
THEORY AND APPLICATIONS

Vol. 114, No. 2 August 2002

CONTENTS

CONTRIBUTED PAPERS

Numerical Comparisons of Path-Following Strategies for a Primal-Dual Interior-Point Method for Nonlinear Programming, *M. Argaez, R. Tapia, and L. Velázquez* 255

Local Controllability of Functional Integrodifferential Equations in Banach Space, *P. Balasubramaniam, J. P. Dauer, and C. Loganathan* 273

Pseudonormality and a Lagrange Multiplier Theory for Constrained Optimization, *D. P. Bertsekas and A. E. Ozdaglar* 287

An Observation on Two Methods of Obtaining Solutions to Variational Problems, *D. A. Carlson* 345

Estimation of Circle Parameters by Centroiding, *Y. T. Chan, Y. Z. Elhalwagy, and S. M. Thomas* 363

On the Boundary Control of a Hybrid System with Variable Coefficients, *B. Z. Guo* 373

Analytic Solutions of L^∞ Optimal Control Problems for the Wave Equation, *M. Gugat* 397

Adaptive Algorithm for Constrained Least-Squares Problems, *Z. F. Li, M. R. Osborne, and T. Prvan* 423

Differential-Algebraic Approach to Linear Programming, *M. Xiong, J. Wang, and P. Wang* 443

TECHNICAL NOTE

On the Optimum Radius of Robust Stability for Schur Polynomials, *L. X. Gao and Y. X. Sun* 471

ERRATA CORRIGE

Pseudomonotone Variational Inequalities: Convergence of the Auxiliary Problem Method, *N. El Farouq* 477

BOOK NOTICES 479

GENERAL INFORMATION

Editorial Policy 481

Preparation of Papers 483

Editorial Addresses 487

JOURNAL OF OPTIMIZATION
THEORY AND APPLICATIONS

Vol. 114, No. 3 September 2002

CONTENTS

CONTRIBUTED PAPERS

Nash Equilibria, Variational Inequalities, and Dynamical Systems, *E. Cavazzuti, M. Pappalardo, and M. Passacantando* 491

Duality and Well Behavior of Nonconvex Functions, *S. Guillaume* 507

Primal-Dual Newton-Type Interior-Point Method for Topology Optimization, *R. H. W. Hoppe, S. I. Petrova, and V. Schulz* 545

Spline Techniques for Solving Singularly-Perturbed Nonlinear Problems on Nonuniform Grids, *M. K. Kadalbajoo and K. C. Patidar* 573

Vector Variational Inequalities Involving Vector Maximal Points, *M. H. Kim, S. H. Kum, and G. M. Lee* 593

Optimal Bang–Bang Controls for a Two-Compartment Model in Cancer Chemotherapy, *U. Ledzewicz and H. Schättler* 609

General Strongly Nonlinear Quasivariational Inequalities with Relaxed Lipschitz and Relaxed Monotone Mappings, *Z. Liu, J. S. Ume, and S. M. Kang* 639

Scalarization and Stability in Vector Optimization, *E. Miglierina and E. Molho* 657

Global Optimization Approach to Unequal Sphere Packing Problems in 3D, *A. Sutou and Y. Dai* 671

TECHNICAL NOTES

Analysis of the *N*-Card Version of the Game Le Her, *A. T. Benjamin and A. J. Goldman* 695

Asymptotic Stability for a Class of Neutral Systems with Discrete and Distributed Time Delays, *K. K. Fan, C. H. Lien, and J. G. Hsieh* 705

BOOK NOTICES 717

GENERAL INFORMATION

Editorial Policy 719

Preparation of Papers 721

Editorial Addresses 725

AUTHOR INDEX TO VOLUME 114 729